Announcements

New Equipment
Last summer, the Stanford Nano Shared Facility (SNF) added a brand-new Scanning Transmission Electron Microscope. Learn more about its cool functions and capabilities!

Recent Awards
In September, Stanford University was chosen to co-lead a new California Pacific-Northwest AI-Hardware Microelectronics Commons Hub with UC Berkeley!

Events

NNI Anniversary Symposium
March 5, 2024 | 8:00AM – 7:00PM PST
Thank you to everyone who went out and celebrated the 20th anniversary of the 21st Century Nanotechnology Research and Development Act in Washington DC! In case you missed it, visit this page for an event recap and recordings!

nano@stanford Town Hall
May 15, 2024 | 1:00PM – 3:00PM PST
The nano@stanford Lab Member Collaborative (LMC) will be hosting a Town Hall for our lab community this spring. Come by for pizza before the meeting and a chance to hear about some important lab updates!

2024 NNCI Etch Symposium
April 24, 2024 – April 25, 2024
Join us alongside the NNCI at Georgia Tech this Spring to learn about advances in micro- & nanoscale patterning of strategic and emerging materials for electronic, photonic, quantum, and MEMS devices. More information can be found here.

2024 nano@stanford Open House
October 9, 2024 | 12:00PM – 5:00PM PST
This Fall, we will be hosting our second annual nano@stanford Open House on National Nanotechnology Day! Join us for a fun-filled day, featuring industry members, poster sessions, games, and more!
**Recent Happenings**

In October 2023, we hosted our first nano@stanford Open House! This event featured a variety of elements, all of which brought our community closer together while keeping the curiosity around nanotechnology alive. We had a research showcase, a vendor expo, live instrument demos, and opportunities to interact/connect with industry professionals and guests from other NNCI sites. Later on in the evening, the nano@stanford Lab Member Collaborative (LMC) and EH&S hosted a fun pub-style Trivia Night with pizza and prizes. Thank you to everyone that came; we hope to see you at this year’s event!

**New Staff**

**Nadia Makarova | AFM Support Scientist | CSIF & SNSF**

Nadia received a Ph.D. in Mechanical Engineering at Tufts University, with a thesis on characterizing mechanics of soft materials with advanced AFM techniques. In her spare time, she enjoys pen sketches, exploring the outdoors with her dog, and reading mystery novels.

**Paul Wallace | PFIB R&D Scientist/Engineer | SNSF**

Paul has degrees in Chemistry/Physical Chemistry from Cal Poly, SLO and University of Washington, Seattle and substantial experience operating and training on charged particle microscopes. In his free time, he operates a garden railroad in San Carlos.

**Neel Mehta | Process Engineer - Furnaces | SNF**

Neel is a University of Illinois at Chicago alum with experience in nanofabrication, device, and cleanroom management. His expertise lies within flexible substrate roll to roll nanoimprint lithography and coating systems. In his spare time, he loves to go on hikes and photograph birds.
Meet Our Interns

Intern Highlight: REU at Harvard

Last summer, one of our interns, Alsyl Enriquez, had an exhilarating research experience at Harvard University, where he examined the fabrication of a metamaterial!

Research Highlight: Spintronics

Uncover the spintronics research of Sanyum Channa, a fifth-year graduate student at Stanford University. Join us as we delve into his award-winning work and explore the journey that sparked his passion for the field.
Outreach Event Highlight – Sutter Middle School Visit

Last week, we had the pleasure of hosting 150 students from Sutter Middle School for an exciting day of hands-on learning! The students got to participate in a circuit activity, try out a desktop scanning electron microscope (SEM), tour our facilities, and watch instrument demos (TEM, AFM, NanoSIMS). They even got to listen to research talks from our graduate students and a few guests from the Stanford Microfluidics Foundry. We are thrilled to have been able to provide such a fun and engaging educational experience for these young minds!

NanoSIMST Program – Now Recruiting!

Applications for the 2024 Nanoscience Summer Institute for Middle School Teachers (NanoSIMST) workshop are now live. We are offering two PAID professional development workshops this summer - both virtual and in-person! This is a really great opportunity for middle school teachers to engage in hands-on learning and acquire skills to seamlessly incorporate nanoscience into their classrooms.

Applications are being accepted on a rolling basis.
Deadline: April 19, 2024. Apply Now!
Learn more about the program here: https://tinyurl.com/nanoSIMST2024
Opportunities

Now Hiring – Lab Operations Engineer, Stanford Nano Shared Facilities (SNSF)
- The Lab Operations Engineer will support highly specialized technical research operations within the SNSF’s Nanopatterning and Flexible Cleanrooms and the responsibilities will include managing day-to-day operations, instrument maintenance, user training, method development, and fostering a sense of community with a diverse user base.
- To apply and find additional details, view the posting here.

Now Hiring – Senior Process Operations Engineer, Stanford Nanofabrication Facility (SNF)
- This position will be responsible for managing the MOCVD thin films functional area: process, equipment, and user community engagement. An in-depth background in process integration and cross-disciplinary experience beyond silicon is a big plus. This position will also support new educational initiatives to make fabrication more accessible to all learners everywhere.
- To apply and find additional details, view the posting here.

2024 NNCI NANO + AM Summit: Call for Abstracts!
- Oral presentation abstract deadline: April 30, 2024
- Poster presentation abstract deadline: June 30, 2024
- More info can be found here.

Quantum Noir 2024 Conference
- When: June 11, 2024 – June 14, 2024
- What: A biennial quantum, nanoscience, and engineering conference targeted at researchers of Color (+). Our sister site at Harvard University (CNS) created this conference to educate participants about
quantum science and engineering, and to network researchers from under-represented groups with leaders in the field. The majority of the program will be held in Cambridge, MA; travel support may be available to people who register.

- Pre-register by April 15, 2024 to be eligible for travel support! More information about this event can be found [here](#).

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**Wrap-Up**

**Try your luck at our puzzle for a chance to win some nano@stanford swag!**

Welcome to the quarterly nano@stanford newsletter puzzle! Playing off of the popular NYT Daily puzzles, we wanted to create custom puzzles tailored to the work we do here at our facilities. Think hard – all puzzle answers are nano-related!

Once you’ve completed the puzzle, you’ll receive instructions on how to enter our raffle to win some nano@stanford swag. Good luck and have fun!

[PLAY NOW!]

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All supporting files from this newsletter can be found on [our website](#).
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